ECS/EMD Configuration Change Request

1. Originator	2. Log Date:	3. CCR #:	4. Rev:	5. Tel:	6. Rm #:	7. Org.
Henry Baez	**12/23/03**	**03-0852**	**—**	301-925-1025	3108G	COTS HW

8. CCR Title: Install upgrade Portus Ftproxy and Aproxy binary, 5.09, on all DAAC and SMC firewalls.

9. Originator Signature/Date	10. Class	11. Type:	12. Need Date: 1/30/04
Henry Baez /s/ 12/23/03	**II**	**CCR**	

13. CCR Sponsor Signature/Date	14. Category of Change:	15. Priority: (If "Emergency" fill in Block 27).
Pamela Johnson /s/ 12/23/03	<mark>Patch/TE</mark>	Routine

16. Documentation/Drawings Impacted *(Review and submit checklist):* 910-TDA-003/TDA-023, 920-TDS/N/L/G/E/P/V-002	17. Schedule Impact:	18. CI(s) Affected:

19. Release Affected by this Change:	20. Date due to Customer:	21. Estimated Cost: <mark>None - Under 100K</mark>

22. Source Reference: ☐NCR (attach)   ☐Action Item   ☐Tech Ref.   ☐GSFC   ☐Other:

23. Problem: (use additional Sheets if necessary)
There are two issues. One is the Synergy program is required to provide information on anonymous FTP file access to DAAC. At present FTP log on firewall does not provide all the needed information. Firewall vendor Portus has provided a new FTP proxy, 5.0.9, with requested log information. The second issues is the RDS SRB application is SOCKET base and it normally sets the 'urgent' flag as a keep a live method. The 5.0.5 Aproxy logs these non-error entries. The number of entries is very high and fills the logs with information that is of not significant. Portus said this was a mistake and fixed this in version 5.0.8 higher.

24. Proposed Solution: (use additional sheets if necessary)
Install new Portus Ftproxy, 5.0.9, and Aproxy, 5.0.8, version binaries. The Ftproxy version has the new syslog reporting entries and the Aproxy corrects logging of 'urgent' flag. Ftproxy and Aproxy binary where replaced and tested in VATC and PVC. The binaries have run for over two months in the PVC and VATC with no problems. The file 'binary509.tar has been uploaded to lemmings, cksum numbers: 378544403   372736.

25. Alternate Solution: (use additional sheets if necessary)
Release Portus version 5.0.9 (part of AIX OS upgrade) which incorporates the updated Ftproxy and Aproxy binaries

26. Consequences if Change(s) are not approved: (use additional sheets if necessary)
Synergy cannot meet DAAC requirements for the correct type of log information and logs files will fill up faster with non-error Aproxy entries.

27. Justification for Emergency (If Block 15 is "Emergency"):

28. Site(s) Affected: ☐EDF   ☐PVC   ☐VATC   ☒EDC   ☒GSFC   ☒LaRC   ☒NSIDC   ☒SMC   ☐AK   ☐JPL   ☐EOC   ☐IDG Test Cell   ☐Other

29. Board Comments:	30. Work Assigned To:	31. CCR Closed Date:

32. SCDV CCB Chair (Sign/Date): **Byron Peters /s 1/7/04**	Disposition: <mark style="color:red">Approved</mark> App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS
33. EDF CCB Chair (Sign/Date):	Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS
34. ECS CCB Chair (Sign/Date):	Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS

ADDITIONAL SHEET

CCR #: 03-0852   Rev: — Originator: Henry Baez

Telephone: 301-925-1025   **Office:** 3108G

Title of Change: Install upgrade Portus Ftproxy and Aproxy binary, 5.09, on all DAAC and SMC firewalls.

Installation Instructions - The upgrade takes less than ten minute. There will be minimal disruption to ftp traffic. Aproxy, or SOCKET flows will be impact more, but for a short time.
1. Login as root on firewall.
2. Crate a directory under /tmp called binary509 and change directory to it.
     #mkdir /tmp/binary509 <Enter>
     #cd /tmp/bianry509<Enter>
3. FTP the binary509.tar file to the firewall directory /tmp/bianry509.   With the command 'tar xvf smwrap_5061.tar extract the files.
     #tar –xvf binary509.tar <Enter>
4.Check the files size and sum values with cksum command as follows:
     #cksum ftproxy.509<Enter>
  Sum   Size   File Name
 3017723283   247574 ftproxy.509
     #cksum aproxy.509<Enter>
  Sum   Size   File Name
 123189548   122661 aproxy.509

Note: If the checksum is NOT correct, stop and contact Landover for new files or other way to get correct files.

5. Change the owner, group and permissions of the ftproxy.509 binary as follows:
     #chown root.system ftproxy.509<Enter>
     #chmod 4555 ftproxy.509 <Enter>

6. Replace /usr/local/etc/ftproxy with new binary. Save the present version of the ftproxy file in the directory /usr/local/etc/ as follows:
     #cd /usr/local/etc <Enter>

     #cp ftproxy ftproxy.[date of change] <Enter>

7. Copy the files from /tmp/bianry509/ftproxy.509 to /usr/local/etc as follows:
     #cp –p /tmp/binary509/ftproxy.509 /usr/local/etc/ftproxy <Enter>

The –p option preserve the file permissions set in step 6. The new ftproxy is now active. Check on this as follows:

     #/usr/local/etc/ftproxy –V <Enter>
The following will appear on console:

Portus - ftproxy Version: 5.0.9 Built: 2003-09-18 17:07

Verification of Installation
Check that there are ftp connections. Look at the /var/adm/syslog for ftproxy entries. The difference from the older replaced version is how the FTP log entries look. One example, before there was no 'type' entry in the log, now there is.

8. Now we will work witht eh Aproxy. Change the owner, group and permissions of aproxy.509 binary as follows:
     #chown root.system aproxy.509 <Enter>
     #chmod 555 aproxy.509 <Enter>

9. Save the present version of the aproxy file in the directory /usr/local/etc/ as follows:
     #cd /usr/local/etc <Enter>
     #cp aproxy aproxy.[date of change] <Enter>

10. Replace /usr/local/etc/aproxy with new binary. First you must kill the running aproxy. This is where you could cause interruptions. Run the following command to kill the main aproxy process:

#kill `cat /etc/firewall/aproxy.pid` <Enter>

If you run the command 'ps -ef | grep aproxy' before you run the kill command, you will something like the following:

```
root  9046    1  0  Sep 26    - 0:06 /usr/local/etc/aproxy
root  9554  9046  0  Sep 26    - 0:02 /usr/local/etc/aproxy
root 10320  9046  0  Sep 26    - 0:12 /usr/local/etc/aproxy
root 10578  9046  0  Sep 26    - 0:00 /usr/local/etc/aproxy
root 10836  9046  0  Sep 26    - 0:00 /usr/local/etc/aproxy
root 11094  9046  0  Sep 26    - 0:14 /usr/local/etc/aproxy
root 11352  9046  0  Sep 26    - 0:01 /usr/local/etc/aproxy
```

The 'kill' command above will kill the process ID number 9046. But you might still have to kill all the aproxy process one at a time.
First see if you can copy the files from /tmp/binary509/aproxy.509 to /usr/local/etc as follows:
        #cp –p /tmp/binary509/aproxy.509 /usr/local/etc/aproxy <Enter>

The –p option preserve the file permissions set in step 6. If you get an error message basically telling you that you cannot replace a running process, then you will have to run use the kill command to kill all aproxy processes. The following example uses the process listed above to kill all running aproxy processes:
        #kill 9554 10320 10578 10836 11094 11352<Enter>

Then do the copy command over.
        #cp –p /tmp/binary509/aproxy.509 /usr/local/etc/aproxy <Enter>

Now run the command to restart the aproxy process as follows:
        # /usr/local/etc/refresh_aproxy <Enter

You will see a message telling it could not kill the process, you already did this, but the new aproxy should now be active. Check on this as follows:

        #/usr/local/etc/aproxy –V <Enter>
The following will appear on console:

Portus - aproxy Version: 5.0.8+ Built: 2003-08-26 13:57

Also run the command 'ps -ef | grep aproxy' and you will see many aproxy processes similar to example above.

Verification of Installation
Check that there are aproxy (SSH, Sybase replication, etc.) connections. Look at the /var/adm/syslog for aproxy entries.

Back-Out Instructions
The older version of aproxy and ftproxy can just be copied back from the aproxy.[date of change] or ftproxy.date of change] in the /usr/local/etc directory.